

Laucks

Testing Laboratories, Inc.

940 South Harney St. Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
PO Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO: 98040

DATE: August 13, 1986

PO# A 9352

REPORT ON: WATER

SAMPLE

IDENTIFICATION: Submitted 8/1/86 and identified as shown below:

Metro Waste Discharge #3200 - A9352

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc	0.10
Chromium	0.75
Copper	0.20
Nickel	0.42

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J.M. Owens

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AKC-0015871

Laucks

Testing Laboratories, Inc.

940 South Harney St. Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 98039

DATE Aug. 21, 1986

PO# A 9353

REPORT ON ACID

SAMPLE
IDENTIFICATION

Submitted 8/01/86 and identified as shown below:

Nitric Acid Sample I.D. # 3200-A9353

TESTS PERFORMED
AND RESULTS:

Specific Gravity, at 25°C ----- 1.221

Total Acidity, calculated as %
HNO₃ (methyl orange end point) ----- 7.5

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj



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AKC-0015872

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Certificate

Chemistry, Microbiology, and Technical Services

CLIENT Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 98828

DATE Sept. 19, 1986

PO# A-9698

REPORT ON ACID

SAMPLE
IDENTIFICATION

Submitted 9/16/86 and identified as shown below:

Nitric Acid Sample ID# 3200-A9698

TESTS PERFORMED
AND RESULTS:

Specific Gravity, at 25°C ----- 1.218

Total Acidity, calculated as %
HNO₃ (methyl orange end point) ----- 7.2

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj



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AKC-0015873

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Certificate

Chemistry, Microbiology, and Technical Services

CLIENT Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 98831

DATE Oct. 3, 1986

PO# A-9697

REPORT ON WASTE WATER

SAMPLE
IDENTIFICATION

Submitted 9/16/86 and identified as shown below:

Metro Waste Discharge Sample ID# 3200-A9697

TESTS PERFORMED
AND RESULTS:

parts per million (mg/L)

Zinc	0.10
Chromium	3.0
Copper	0.48
Nickel	1.2

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:1aj



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AKC-0015874

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940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
PO Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO: 99116

DATE: Oct. 13, 1986

PO# A9835

REPORT ON: WASTE WATER

SAMPLE

IDENTIFICATION: Submitted 10/3/86 and identified as shown below:

Metro Waste Discharge ID #3200-A-9835

TESTS PERFORMED AND RESULTS:

	<u>parts per million (mg/L)</u>
Zinc	0.17
Chromium	0.85
Copper	0.59
Nickel	0.27

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J.M. Owens

JMO:dr



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AKC-0015875

Laucks

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940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 99117

DATE Oct. 9, 1986

PO# A-9836

REPORT ON NITRIC ACID

SAMPLE
IDENTIFICATION

Submitted 10/03/86 and identified as shown below:

Nitric Acid Sample ID# 3200-A9836

TESTS PERFORMED
AND RESULTS:

Specific Gravity, at 25°C ----- 1.246

Total Acidity, calculated as %
HN03 (methyl orange end point) ----- 7.5

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J. M. Owens

JMO:1aj



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AKC-0015876

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940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
PO Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO: 99638

DATE: Nov. 12, 1986

PO# M-1079

REPORT ON: NITRIC ACID

SAMPLE

IDENTIFICATION: Submitted 11/3/86 and identified as shown below:

Nitric Acid Sample ID# 3200-M-1079

TESTS PERFORMED AND RESULTS:

Specific Gravity @ 25 degrees C 1.274

Total Acidity, calculated as %
HNO₃ (methyl orange end point) 8.6

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J.M. Owens
J.M. Owens

JMO:dr



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AKC-0015877

Laucks

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940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
PO Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO: 99639

DATE: Nov. 12, 1986

PO# M-1080

REPORT ON: WASTE DISCHARGE

SAMPLE

IDENTIFICATION: Submitted 11/3/86 and identified as shown below:

Metro Waste Discharge ID# 3200 M1080

TESTS PERFORMED AND RESULTS:

	<u>parts per million (mg/L)</u>
Zinc	0.086
Chromium	1.7
Copper	0.44
Nickel	1.3

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J.M. Owens

JMO:dr



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AKC-0015878

Laucks

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940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
PO Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO: 99527

DATE: Nov. 12, 1986

PO# M-1039

REPORT ON: LIQUID

SAMPLE

IDENTIFICATION: Submitted 10/27/86 and identified as shown below:

Metro grab sample 10/23/86 ID# 3200-M-1039 86/10/23 @ 13:45

TESTS PERFORMED AND RESULTS:

	<u>parts per million (mg/L)</u>
Zinc	0.062
Chromium	1.5
Copper	0.46
Nickel	0.91

Respectfully submitted,

Laucks Testing Laboratories, Inc.


J.M. Owens

JMO:dr



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AKC-0015879

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Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 99932

DATE: Dec. 6, 1986

PO# M-1224

REPORT ON: TRANSFORMER OIL

SAMPLE

IDENTIFICATION: Submitted 11/19/86 and identified as shown below:

ID# 628-M1224 Transformer - Waste Oil

TESTS PERFORMED AND RESULTS:

parts per million (mg/kg)

PCB _____ 6. B

Key

B = Arochlor 1254

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:lj



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AKC-0015880

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Certificate

Chemistry, Microbiology, and Technical Services

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P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 99932

DATE: Dec. 6, 1986

PO# M-1224

REPORT ON: TRANSFORMER OIL

SAMPLE

IDENTIFICATION: Submitted 11/19/86 and identified as shown below:

ID# 628-M1224 Transformer - Waste Oil

TESTS PERFORMED AND RESULTS:

parts per million (mg/kg)

PCB _____ 6. B

Key

B = Arochlor 1254

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:laj



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AKC-0015881

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Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 1092

DATE: Dec. 6, 1986

REPORT ON: NITRIC ACID

SAMPLE

IDENTIFICATION: Submitted 12/02/86 and identified as shown below:

- 1) 3200 ML306
- 2) 3600 ML306

TESTS PERFORMED AND RESULTS:

	1	2
Specific Gravity at 25 degrees C	1.110	1.240
Total Acidity, calculated as % HNO ₃ (methyl orange end point)	6.8	5.5

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:la j



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AKC-0015882

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Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 1090

DATE: Dec. 13, 1986

PO# 1304

REPORT ON: WASTE WATER

SAMPLE

IDENTIFICATION: Submitted 12/02/86 and identified as shown below:

3600 - M1304

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Chromium	0.18
Copper	0.070
Nickel	0.12
Zinc	0.21

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:laj



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AKC-0015883

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Certificate

Chemistry, Microbiology and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown

LABORATORY NO. 1091

DATE: Dec. 13, 1986

PO# 1305

REPORT ON: WASTE WATER

SAMPLE

IDENTIFICATION: Submitted 12/02/86 and identified as shown below:

3200 - M1305

TESTS PERFORMED
AND RESULTS:

parts per million (mg/L)

Chromium	2.4
Copper	0.95
Nickel	1.6
Zinc	0.26

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens
J. M. Owens

JMO:laj



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AKC-0015884